

REMARKS

Reconsideration and allowance of the subject application are respectfully requested. Up entry of this Amendment, claims 1-68 are pending in the application. In response to the Office Action (Paper No. 14), Applicant respectfully submits that the pending claims define patentable subject matter.

I. Rejection of claims 7-21, 23, 24, 27-29, 53-57, 59, 60, 64 and 65 under

35 U.S.C. § 112, first paragraph

The Examiner maintains that the specification does not disclose displaying program specific information (PSI) on the on-screen graphic (OSG) display as recited in claims 17, 20, 23, 27, 28, 29, 53, 56, 57, 59, 60 and 64-66. Further, the Examiner maintains that the specification does not disclose that the OSG generator mixes the PSI with a graphic signal of the background screen, as recited in claims 18, 19, 54 and 55. Lastly, the Examiner maintains that the specification does not disclose parsing the PSI from the transport stream, as recited in claims 21, 23, 24, 27-29, 57, 59, 60 and 64-66. By this Amendment, Applicant has claims 7-21, 23, 24, 27-29, 53-57, 59, 60, 64 and 65 to change "PSI" to "program guide information". Accordingly, the Examiner is requested to remove the § 112, first paragraph, rejection of record.

II. Prior Art Rejections

Claims 1, 3, 6-8, 10-12, 22, 25, 26, 30-32, 34-36, 39-41, 43-45, 48-50, 58, 61-63, 67 and 68 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Yanagihara et al. (USP 5,899,578) in view of Staats et al. (USP 5,940,600). Claims 2, 4, 5, 9, 33, 37, 38 and 42 are

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rejected under 35 U.S.C. § 103(a) as being unpatentable over Yanagihara et al. in view of Staats et al. and Coutts et al. (USP 5,742,730).

In the Amendment filed May 14, 2001, the independent claims were amended to recite that the control command for transferring the program information is not included in the Program Specific Information (PSI) of the transport stream, as suggested by Examiners Onuaku and Tran during the interview on April 17, 2001. Further, Applicant argued that the present invention as recited in the amended independent claims is not anticipated by or rendered obvious in view of the applied references because Yanagihara et al. (Yanagihara) does not teach or suggest a generating a control command for transferring a program information of an intended program in an multi-program MPEG transmission stream, and/or receiving the control command and recording/reproducing the intended program of a received transport stream corresponding to the program information, wherein the control command is not included in program specific information (PSI) of the transport stream, as recited in the amended independent claims.

In response to the Amendment, the Examiner now combines Yanagihara with Staats et al. (Staats) in rejecting the independent claims. In particular, the Examiner asserts that Yanagihara discloses all of the features of the independent claims except for an input device with an IEEE-1394 interface, which the Examiner contends is disclosed by Staats. In particular, the Examiner asserts that “[i]t would have been obvious to modify Yanagihara by adding an IEEE-1394 interface to connect the front panel 10 (input device) to the microcomputer of Yanagihara, as taught by Staats, since this provides the desirable advantage of isochronous and asynchronous data transmission and reception”. Further, the Examiner asserts that Yanagihara, as modified

with Staats, discloses that the control command is not included in program specific information and that it would have been obvious that the control command would be transmitted asynchronously and would not need to be included in the PSI of the transport stream, since the IEEE-1394 digital interface transmission and reception includes asynchronous transmission and reception.

Applicant respectfully submits that the claimed invention would not have been rendered obvious in view of Yanagihara, Staats and/or Coutts et al. (hereinafter "Coutts"). In particular, Applicant respectfully submits that the combined references do not teach or suggest generating a control command for transferring the program information, wherein the control command is not included in the PSI of the transport stream

The Examiner states that "Yanagihara fails to disclose an input device with IEEE-1394 interface". However, the claimed invention does not include an input device (e.g., remote controller 120) with IEEE-1394 interface. Rather, the receiver (e.g., ATV 100) and the recording/reproducing device (e.g., HD-VCR 200) include a first digital (IEEE-1394) interface and a second digital (IEEE-1394) interface, respectively, so that the receiver and the recording/reproducing device may be communicably linked via an IEEE-1394 cable (30). Moreover, Yanagihara (see column 6, lines 64-67) discloses that the digital interface 11 of the digital signal processor (Figure 1) may be based on IEEE-1394 (the digital interface 11 transmits and receives audio and video data, and supplementary data to and from an external recording/playback device MPEG). Accordingly, the Examiner's reliance on the Staats patent for disclosing that devices may be linked through an IEEE-1394 interface is unclear since Staats

does not appear to provide any additional features which are not disclosed by Yanagihara and are pertinent to the present invention.

As discussed in the Amendment filed May 14, 2001, Yanagihara discloses a modifying the PSI of the transport stream, rather than generating a new control command. That is, Yanagihara teaches that the PSI is modified by altering the PAT to include only the PID specified by the PMT having a selected program number. The audio data, video data and PSI are inserted into isochronous packets according to the IEEE-1394 standard and transmitted to the DVCR where the audio data, video data and PSI are all recorded (see column 6, line 45 - column 7, line 4). On the other hand, the present invention is directed to adding a new command to the AV/C CTS for transferring a program number to recording/reproducing using the asynchronous transfer mode of the IEEE-1394 standard, wherein the control command is not included in the PSI of the transport stream.

Similarly, it is quite clear that neither Staats nor Coutts teaches or suggests this feature of the present. In particular, Staats simply discloses a computer system consisting of a plurality of nodes, each with an associated local host, coupled together with a plurality of point-to-point links, wherein an isochronous data channel is established within the computer system between a subset of the plurality of nodes. Coutts discloses a system for controlling a VCR tape position. Neither reference is directed to a system which allows a user to input a program number of an intended program which is transferred from a receiver to a recording/reproducing device via a control command.

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Accordingly, Applicant respectfully submits that independent claims 1, 3, 22, 26, 30, 31, 34, 35, 48, 58, 62, 67 and 68, as well as the dependent claims, should be allowable because applied references, alone or combined, do not teach or suggest all of the features of the claims.


III. Conclusion

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

Applicant hereby petitions for any extension of time which may be required to maintain the pendency of this case, and any required fee, except for the Issue Fee, for such extension is to be charged to Deposit Account No. 19-4880.

Respectfully submitted,

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APPENDIX
VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

The claims are amended as follows:

17. (Twice Amended) The multi-media system of claim 3, wherein said first signal processor further comprises an on-screen graphic (OSG) generator for displaying the [PSI] program guide information of a transport stream being received on an OSG display.

18. (Twice Amended) The multi-media system of claim 17, wherein said OSG generator mixes the [PSI] program guide information with a graphic signal of a background screen to be provided to said OSG display.

19. (Twice Amended) The multi-media system of claim 17, wherein said OSG generator mixes the [PSI] program guide information with the decoded video signal to be provided to said OSG display.

20. (Twice Amended) The multi-media system of claim 3, wherein said first signal processor further comprises an on-screen display (OSD) generator for displaying the [PSI] program guide information of a transport stream being received on an OSD display.

21. (Twice Amended) The multi-media system of claim 17, wherein the second signal processor does not parse the [PSI] program guide information from a transport stream being received via the second digital interface.

23. (Twice Amended) The method of claim 22, wherein the step (a) comprises the steps of:

- (a1) parsing the program [specific] guide information [(PSI)] from the transport stream;
- (a2) displaying the parsed [PSI] program guide information; and
- (a3) providing the program information of the intended program according to the displayed [(PSI)] program guide information.

24. (Twice Amended) The method of claim 23, wherein the parsed [PSI] program guide information of step (a2) is displayed on an OSG display.

27. (Twice Amended) The method of claim 26, wherein the step (a) comprises the steps of:

- (a1) parsing the [PSI] program guide information from the transport stream;
- (a2) displaying the parsed [PSI] program guide information; and
- (a3) providing the program information of the intended program according to the displayed [PSI] program guide information.

28. (Twice Amended) The method of claim 27, wherein step (a2) comprises displaying the parsed [PSI] program guide information on an OSG display.

29. (Twice Amended) The method of claim 27, wherein step (a2) comprises displaying the parsed [PSI] program guide information on an OSD display.

53. (Twice Amended) The device of claim 48, wherein the signal processor further comprises an on-screen graphic (OSG) generator for displaying the [PSI] program guide information of a transport stream being received on an OSG display.

54. (Twice Amended) The device of claim 53, wherein the OSG generator mixes the [PSI] program guide information with a graphic signal of a background screen to be output to the OSG display.

55. (Twice Amended) The device of claim 54, wherein the OSG generator mixes the [PSI] program guide information with the decoded video signal to be output to the OSG display.

56. (Twice Amended) The device of claim 48, wherein the signal processor further comprises an on-screen display (OSD) generator for displaying the [PSI] program guide information of a transport stream being received on an OSD display.

57. (Twice Amended) The device of claim 53, wherein the signal processor does not, in itself, parse the [PSI] program guide information from a transport stream being received via the digital interface.

59. (Twice Amended) The method of claim 58, wherein the step (a) comprises the steps of:

- (a1) parsing the [PSI] program guide information from the transport stream;
- (a2) displaying the [PSI] parsed program guide information; and
- (a3) inputting the program information of the intended program according to the displayed [PSI] program guide information.

60. (Twice Amended) The method of claim 59, wherein in the step (a2), the parsed [PSI] program guide information is displayed on an OSG display.

64. (Twice Amended) The method of claim 62, wherein the step (a) comprises the steps of:

- (a1) parsing the [PSI] program guide information from the transport stream;
- (a2) displaying the parsed [PSI] program guide information; and
- (a3) inputting the program information of the intended program according to the displayed [PSI] program guide information.

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65. (Twice Amended) The method of claim 64, wherein in the step (a2), the parsed [PSI] program guide information is displayed on an OSG display.

66. (Twice Amended) The method of claim 64, wherein in the step (a2), the parsed [PSI] program guide information is displayed on an OSD display.